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L1	61	("20010044807"|"20020078335"|"4633393"|"5032979"|"5247660"|"5276867"|"5283894"|"5408644"|"5465365"|"5511227"|"5530658"|"5553285"|"5568629"|"5579516"|"5581760"|"5598549"|"5623666"|"5671414"|"5675795"|"5689706"|"5692128"|"5724512"|"5761526"|"5778385"|"5794236"|"5802364"|"5819296"|"5832522"|"5870734"|"5881285"|"5896546"|"5897661"|"5932935"|"5940849"|"5964886"|"5974515"|"5990892"|"5991777"|"5996075"|"6026402"|"6032137"|"6075939"|"6076143"|"6151688"|"6161111"|"6185661"|"6216211"|"6219693"|"6240511"|"6266740"|"6272571"|"6279033"|"6289375"|"6311179"|"6311213"|"6330572"|"6405284"|"6435004"|"6438744"|"6453426"|"6457139").PN.	US-PGPUB; USPAT	OR	ON	2005/07/16 09:46
L2	34	logical with volume with mount$ with manager	US-PGPUB; USPAT	OR	ON	2005/07/16 13:41
L7	2790008	@ay<="1998"	US-PGPUB; USPAT	OR	ON	2005/07/16 13:01
L8	13	2 and 7	US-PGPUB; USPAT	OR	ON	2005/07/16 13:01
L10	14	logical with volume same manager same (persistent$3 or persistenc$2 or non adj persistent$3)	US-PGPUB; USPAT	OR	ON	2005/07/16 13:12
L11	9	logical with volume same manager same (persistent$3 or persistenc$2 or non adj persistent$3) same (link$3 or associat$)	US-PGPUB; USPAT	OR	ON	2005/07/16 13:09
L12	1	logical with volume same manager same (persistent$3 or persistenc$2 or non adj persistent$3)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/16 13:39
L13	1	("5881285").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/16 13:39
L14	57	logical with volume same (mount$ or remov$) with manager	US-PGPUB; USPAT	OR	ON	2005/07/16 13:46
L16	17	7 and 14	US-PGPUB; USPAT	OR	ON	2005/07/16 13:42
L17	3	logical with volume same (mount$ or remov$) with manager	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/16 13:46
S1	34	logical with volume with mount$ with manager	US-PGPUB; USPAT	OR	ON	2005/07/16 09:46

S3	7576	cabrera$.in. or microsoft$.as.	US-PGPUB; USPAT	OR	ON	2005/07/15 17:11
S4	8	S1 and S3	US-PGPUB; USPAT	OR	ON	2005/07/15 17:11

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IEEE CNF IEEE Conference Proceeding

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Chang-Soo Kim; Gyoung-Bae Kim; Bum-Joo Shin;
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2. **Volume management by the book: the NAStore Volume Manager**
Ross, B.; Richards, J.;
Mass Storage Systems, 1991. Digest of Papers., Eleventh IEEE Symposium on
7-10 Oct. 1991 Page(s):95 - 99
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3. **Hiding mass storage under Unix: NASA's MSS-II architecture**
Tweten, D.;
Mass Storage Systems, 1990. 'Crisis in Mass Storage'. Digest of Papers., Tenth IEEE Symposium on
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4. **The storage server as virtual volume manager**
Buck, A.L.; Coyne, R.A.;
Mass Storage Systems, 1993. 'Putting all that Data to Work'. Proceedings., Twelfth IEEE Symposium on
26-29 April 1993 Page(s):79 - 86
AbstractPlus | Full Text: PDF(648 KB) IEEE CNF

5. **A method for enhancing the snapshot performance in SAN volume manager**
Chang-Soo Kim; Bak, Y.; Dong-Jae Kang; Young-Ho Kim; Hag-Young Kim; Myoung-Jun Kim;
Advanced Communication Technology, 2004. The 6th International Conference on
Volume 2, 2004 Page(s):945 - 948
AbstractPlus | Full Text: PDF(340 KB) IEEE CNF

6. **A design study for network based storage systems and performance evaluation**
Hui Guo; Jinli Zhou; Lihui Yang; Shengsheng Yu;
Networks, 2002. ICON 2002. 10th IEEE International Conference on
27-30 Aug. 2002 Page(s):156 - 161
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1 Deconstructing storage arrays

Timothy E. Denehy, John Bent, Florentina I. Popovici, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau

October 2004 **Proceedings of the 11th international conference on Architectural support for programming languages and operating systems**, Volume 39 , 32 , 38 Issue 11 , 5 , 5

Full text available: pdf(1.74 MB) Additional Information: full citation, abstract, references, index terms

We introduce Shear, a user-level software tool that characterizes RAID storage arrays. Shear employs a set of controlled algorithms combined with statistical techniques to automatically determine the important properties of a RAID system, including the number of disks, chunk size, level of redundancy, and layout scheme. We illustrate the correctness of Shear by running it upon numerous simulated configurations, and then verify its real-world applicability by running Shear on both software-based ...

Keywords: RAID, storage

2 Constructing Red Hat enterprise Linux 4

Tim Burke

June 2005 **Linux Journal**, Volume 2005 Issue 134

Full text available: html(31.27 KB) Additional Information: full citation, abstract

You could hardly recognize Red Hat's "2.4" kernel for all the 2.6 features. Now the story is different.

3 Features: Closed Source Fights Back

Greg Lehey

July 2003 **Queue**, Volume 1 Issue 5

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SCO vs. The World -- What Were They Thinking?

In May 2003, the SCO Group, a vendor of the Linux operating system, sent a letter to its customers. Among other things, it stated, We believe that Linux is, in material part, an unauthorized derivative of Unix.1 What would make SCO do that?

The action wasnt completely unexpected. In March, SCO had filed a suit against IBM for giving away trade secrets.2 In that complaint, it made a number of accusation ...

4 Experiences with VI communication for database storage

Yuanyuan Zhou, Angelos Bilas, Suresh Jagannathan, Cezary Dubnicki, James F. Philbin, Kai Li
May 2002 **ACM SIGARCH Computer Architecture News**, Volume 30 Issue 2

Full text available: pdf(1.29 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

This paper examines how VI-based interconnects can be used to improve I/O path performance between a database server and the storage subsystem. We design and implement a software layer, DSA, that is layered between the application and VI. DSA takes advantage of specific VI features and deals with many of its shortcomings. We provide and evaluate one kernel-level and two user-level implementations of DSA. These implementations trade transparency and generality for performance at different degrees ...

Keywords: Storage system, cluster-based storage, Database storage, storage area network, User-level Communication, Virtual Interface Architecture, processor overhead

5 Minerva: An automated resource provisioning tool for large-scale storage systems

Guillermo A. Alvarez, Elizabeth Borowsky, Susie Go, Theodore H. Romer, Ralph Becker-Szendy, Richard Golding, Arif Merchant, Mirjana Spasojevic, Alistair Veitch, John Wilkes
November 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 4

Full text available: pdf(701.98 KB) Additional Information: full citation, abstract, references, citings, index terms

Enterprise-scale storage systems, which can contain hundreds of host computers and storage devices and up to tens of thousands of disks and logical volumes, are difficult to design. The volume of choices that need to be made is massive, and many choices have unforeseen interactions. Storage system design is tedious and complicated to do by hand, usually leading to solutions that are grossly over-provisioned, substantially under-performing or, in the worst case, both.To solve the configuration ni ...

Keywords: Disk array, RAID, automatic design

6 Kernel Korner: The Bullet Points: Linux 2.4 - Part Deux

Joe Pranevich
September 2000 **Linux Journal**

Full text available: html(19.34 KB) Additional Information: full citation, abstract, index terms

This article should be considered an addendum to my previous "Bullet Points" article and my follow up piece on ISA PnP support in Linux 2.4 (February, 2000.)

7 Sun MPII/O: efficient I/O for parallel applications

Len Wisniewski, Brad Smisloff, Nils Nieuwejaar
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(138.57 KB) Additional Information: full citation, references, citings, index terms

8 Posters: An interposed 2-Level I/O scheduling framework for performance virtualization

Jianyong Zhang, Anand Sivasubramaniam, Alma Riska, Qian Wang, Erik Riedel
June 2005 **Proceedings of the 2005 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**

Full text available: pdf(38.05 KB) Additional Information: full citation, references, index terms

Keywords: I/O scheduling, fairness, performance isolation, quality of service, storage systems, virtualization

9 2002 editors' choice awards
Linux Journal Staff
September 2002 **Linux Journal**, Volume 2002 Issue 101
Full text available: html(17.38 KB) Additional Information: full citation, abstract, index terms

Nineteen categories and 21 winners--read all about it.

10 New products
CORPORATE Linux Journal Staff
March 2002 **Linux Journal**, Volume 2002 Issue 95
Full text available: html(6.87 KB) Additional Information: full citation, index terms

11 OO process and metrics for effort estimation
Dennis de Champeaux, Simon Horner, Granville Miller
October 1995 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings of the 10th annual conference on Object-oriented programming systems, languages, and applications (Addendum)**, Volume 6 Issue 4
Full text available: pdf(551.94 KB) Additional Information: full citation, references

12 Email overload: exploring personal information management of email
Steve Whittaker, Candace Sidner
April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**
Full text available: pdf(1.40 MB) html(50.38 KB) Additional Information: full citation, references, citings, index terms

Keywords: asynchronous communication, email, empirical studies, ethnography, filing, information overload, interpersonal communication, personal information management, task management

13 The HP AutoRAID hierarchical storage system
John Wilkes, Richard Golding, Carl Staelin, Tim Sullivan
February 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1
Full text available: pdf(1.82 MB) Additional Information: full citation, abstract, references, citings, index terms

Configuring redundant disk arrays is a black art. To configure an array properly, a system administrator must understand the details of both the array and the workload it will support. Incorrect understanding of either, or changes in the workload over time, can lead to poor performance. We present a solution to this problem: a two-level storage hierarchy implemented inside a single disk-array controller. In the upper level of this hierarchy, two copies of active data are stored to provide f ...

Keywords: RAID, disk array, storage hierarchy

14 After Action Review System (AARS) design and functional capabilities
Joseph W. Gibson
December 1995 **Proceedings of the 27th conference on Winter simulation**
Full text available: pdf(610.76 KB) Additional Information: full citation, citings, index terms

15 Strategic directions in storage I/O issues in large-scale computing
Garth A. Gibson, Jeffrey Scott Vitter, John Wilkes
December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4
Full text available: pdf(465.35 KB) Additional Information: full citation, references, citings, index terms

16 Improving storage system availability with D-GRAID
Muthian Sivathanu, Vijayan Prabhakaran, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau
May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2
Full text available: pdf(700.30 KB) Additional Information: full citation, abstract, references, index terms

We present the design, implementation, and evaluation of D-GRAID, a gracefully degrading and quickly recovering RAID storage array. D-GRAID ensures that most files within the file system remain available even when an unexpectedly high number of faults occur. D-GRAID achieves high availability through aggressive replication of semantically critical data, and fault-isolated placement of logically related data. D-GRAID also recovers from failures quickly, restoring only live file system data to a h ...

Keywords: Block-based storage, Disk array, RAID, fault isolation, file systems, smart disks

17 Steeleye lifekeeper for Linux
Sean Tierney
April 2005 **Linux Journal**, Volume 2005 Issue 132
Full text available: html(11.54 KB) Additional Information: full citation, abstract

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18 Industrial sessions: database applications: dbSwitch™: towards a database utility
Shaul Dar, Gil Hecht, Eden Shochat
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**
Full text available: pdf(130.85 KB) Additional Information: full citation, abstract, references

Savantis Systems' dbSwitch™ is an innovative commercial product providing database server virtualization and advancing a database utility model. The dbSwitch enables a new architecture, called a Database Area Network (DAN), which pools database server resources and shares them among multiple database applications. Specific benefits of the DAN architecture for enterprise data centers include server consolidation, improved utilization, high availability and capacity management. We describe t ...

Keywords: DAN, Database Area Network, consolidation, dbSwitch™, grid, utility

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